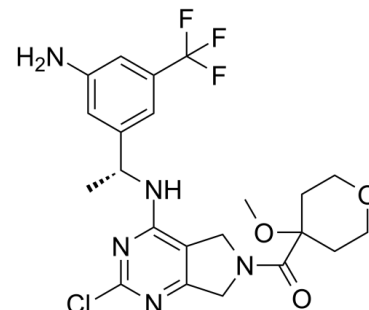


## Data Sheet

<b>Product Name:</b>	RMC-0331
<b>Cat. No.:</b>	CS-0161754
<b>CAS No.:</b>	2488788-52-7
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>25</sub> ClF <sub>3</sub> N <sub>5</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	499.91
<b>Target:</b>	Ras
<b>Pathway:</b>	GPCR/G Protein
<b>Solubility:</b>	DMSO : 125 mg/mL (250.05 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

RMC-0331 (RM-023) is a potent, selective and orally bioavailable **SOS1** inhibitor. RMC-0331 is an in vivo tool compound that blocks RAS activation via disruption of the RAS-SOS1 interaction<sup>[1]</sup>. **In Vitro:** RMC-0331 has an IC<sub>50</sub> of 71 nM measuring by the rate of GDP/GTP exchange in vitro<sup>[1]</sup>. **In Vivo:** RMC-0331 (100-250 mg/kg; p.o.; qd; immunocompetent mice) shows single agent anti-tumor activity in SHP2-mutant models<sup>[1]</sup>.

### References:

[1]. Andreas Buckl, et al. Discovery of a Potent, Selective and Orally Bioavailable SOS1 Inhibitor, RMC-0331 (RM-023), an in vivo Tool Compound that Blocks RAS Activation via Disruption of the RAS-SOS1 Interaction.

### CAIndexNames:

Methanone, [4-[[[(1R)-1-[3-amino-5-(trifluoromethyl)phenyl]ethyl]amino]-2-chloro-5,7-dihydro-6H-pyrrolo[3,4-d]pyrimidin-6-yl]](tetrahydro-4-methoxy-2H-pyran-4-yl)-

### SMILES:

O=C(N1CC2=NC(Cl)=NC(N[C@@H](C3=CC(C(F)(F)F)=CC(N)=C3)C)=C2C1)C4(OC)CCOCC4

**Caution: Product has not been fully validated for medical applications. For research use only.**

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